

Documentation for Miscellaneous Maintenance Scripts Version 1.0 October 24, 2002, revised Nov 14, 2002

1.0 General Information

Three bash scripts are provided. The first two scripts are for the database to help with performance and the third script is for some basic housecleaning of selected directories used by the shefdecoders. These scripts are:

update-low (bash script)
update-stats (bash script)
purge_files (bash script)

All three scripts are intended to be cron jobs run by user oper.

2.0 Configuration Information

update scripts

Two apps_defaults tokens are used by the various scripts, these are:

adb_name	name of the archive database on the archive system
adb_server	Informix server name on the archive system

purge_files script

One apps_defaults token is used by this script.

adb_dir	path to main directory for rfc archive applications and files
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oper's cron

All three scripts should be executed by oper as part of its cron on the archive system. In this way these scripts can be executed on a routine basis.

Example cron entries are shown below.

```
38 1,5,9,13,17,21 * * * /rfc_arc/scripts/dbadmin/update-low >/rfc_arc/scripts/dbadmin/logs/low 2>>/rfc_arc/scripts/dbadmin/logs/low
38 7 * * * /rfc_arc/scripts/dbadmin/update-stats >/rfc_arc/scripts/dbadmin/logs/updstats 2>>/rfc_arc/scripts/dbadmin/logs/updstats
```

```
01 1,7,13,19 * * * /rfc_arc/scripts/purgefiles/purge_files
```

3.0 The Scripts

update scripts

These scripts provide a update statistics strategy for the archive database. This strategy is based on guidelines found in various Informix documentation. Both scripts use the dbaccess command and one or sql files.

The update-low script runs update statistics low on a the suite of SHEF data tables. These tables have data added to then on a frequent basis and to ensure the optimizer has a fairly up-to-date row count it is recommended that this script be run several times each day. Other data tables may need to be added at a later date as an office determines the data load and frequency of changes to tables at their site.

The strategy in the update-stats script was based on guidelines found in various Informix documentation and on a review of the current strategy used on the IHFS database. This script performs an update statistics medium on the entire database and then performs an update statistics high on selected column(s) of specific tables based on each tables primary key and other indexes. It is recommended this script be run once per day during a quiet time.

These scripts are located in the /rfc_arc/scripts/dbadmin directory.

purge_files script

This script does housecleaning of 4 directories. The reason for this housecleaning is to prevent filling up of disk space. The four directories general path are ../raw/err, ../raw/logs, ../pro/err and ../pro/logs. The two err directories are where each shefdecoder write error output files to depending if it's the shef_decoder_raw or shef_decoder_pro application. Similarly the logs directory is where the daily log file for each shefdecoder writes to respectively. The script uses the Linux system find and rm commands. It is recommended the script be run at least once per day.

This script is located in the /rfc_scripts/purgefiles directory.

4.0 Troubleshooting Information

For the update scripts check out the logfiles created by the cron. In addition, refer to the Informix manuals for information if there are problems with the scripts provided for performing update statistics.

For the purge_files script check out the logfile the script creates. This file is located in the /rfc_arc/scripts/purgefiles/logs directory. For detailed information on the find and rm commands used in the script refer to almost any Red Hat Linux book. For specifics on find and rm command options, the user can also refer to the man pages for these command.

5.0 Installation Instructions

“under construction”

6.0 Maintenance Information

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7.0 References

Ron Flannery, “Informix Handbook”, Prentice Hall PTR, 2000

Informix, “Performance Guide for IDS”, 1998.

Christopher Negus, “Red Hat Linux 7.2 Bible”, Hungry Minds, Inc., 2002